iPdomo Thermostat Installation Guide

1 Package Contents

Thermostat	Wall Mounting Plate	Wall Fixing Screws and Batteries	Length of 2-core mains cable	USB Flash Drive

2 Installation Considerations

The iPdomo Thermostat can be used in conjunction with your existing thermostat/programmer it can replace it altogether or it can be connected to most new heating system installations.

2.1 Keeping your existing Programmer/Thermostat

If you chose to retain your existing thermostat, you can operate your heating system as normal, only reverting to Internet control when you want. If there is a problem with your WiFi router or internet connection, control is automatically transferred to your existing thermostat by the iPdomo thermostat. You can switch control between existing thermostat and iPdomo thermostat by using the ***Mode*** *button on the web interface (see 6.2.1)*

2.2 Replacing your existing Programmer/Thermostat

If you choose to completely replace your existing thermostat, and there is a problem with your Wifi router or internet connection, control will revert to your boiler controls.

2.3 New Installation

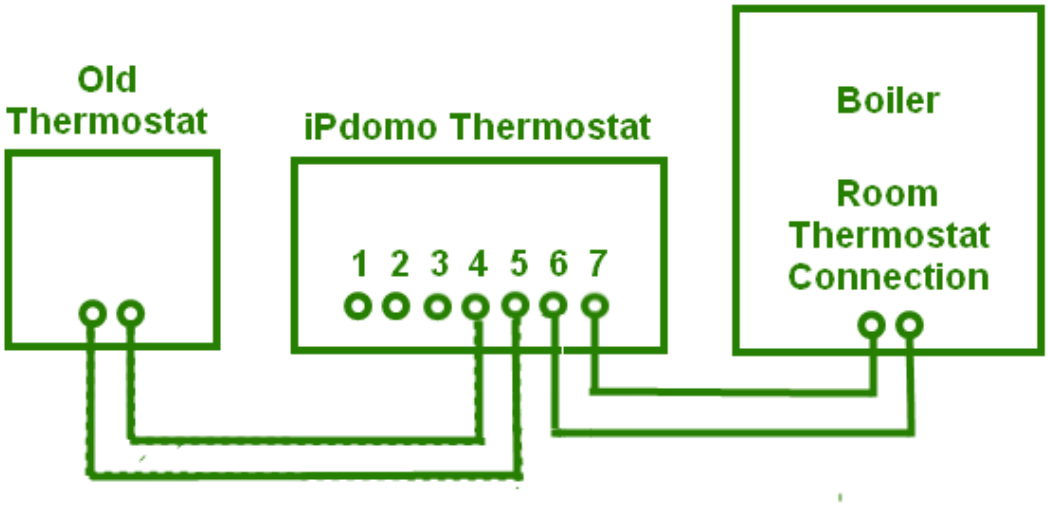
Look at your boiler user manual for details of the external room thermostat connection.

2.4 Siting your iPdomo Thermostat

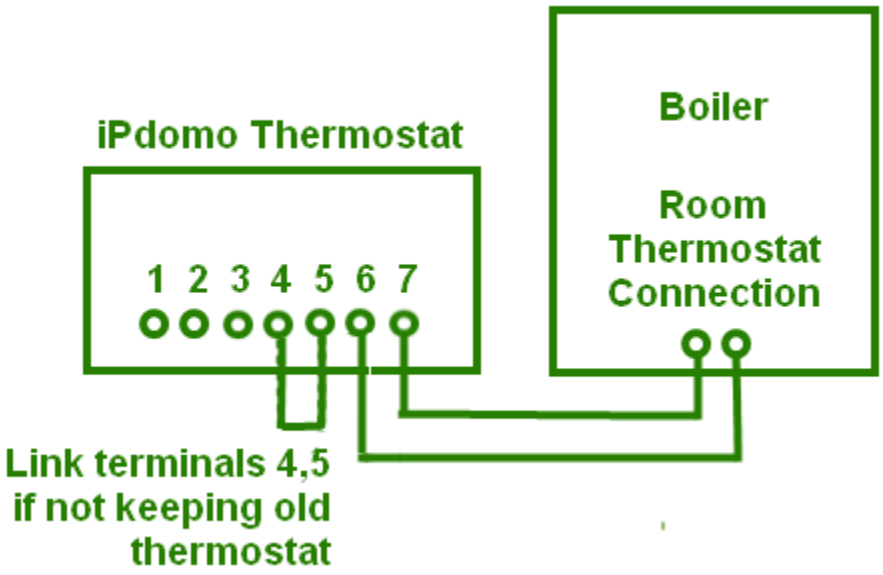
Wherever you decide to locate your iPdomo thermostat it will need to obtain a good WiFi signal from your router. This is determined by your router performance, construction of your home and the distance from your router. Typically, you can expect to achieve a 10-15m range. Test your preferred location with a smartphone, tablet or laptop. Hold it next to the place you want to fit the iPdomo Thermostat and see what sort of WiFi signal can be obtained. If the signal is poor, or there is no signal at all, you may need to relocate your router to achieve a better signal. Alternatively, you can obtain WiFi expanders to extend your WiFi routers' range.

3) Installation

Wiring Summary



Keep your existing Thermostat/Programmer



Completely Replace your existing Thermostat or New Installations

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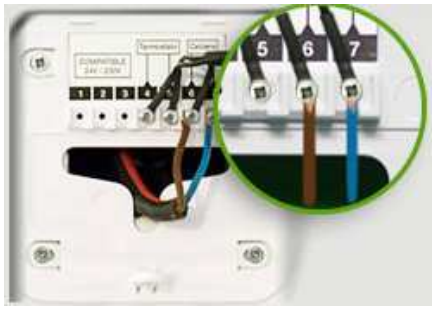
3.1 Step-by-Step Guide

Note - All installation should be undertaken by a qualified electrician.

- *Switch OFF power to your boiler and check isolation before making an alternations*
- *Remove the old thermostat cover, unscrew the 2 wires coming from your boiler and remove the thermostat from the wall (There may 3 wires - these are Live, and Neutral from the boiler and Switched Live feeding back to your boiler. Make a note of which wire is which - use the connection labelling on your programmer.)*

- *Fit the iPdomo Thermostat wall plate in the same position, and connect the 2 wires to terminals 6, 7 labelled "Boiler". (It does not matter which wire connects to which terminal).For 3 wire connections, connect the Live and Switched Live to 6 and 7.The Neutral needs to be re-connected to the Neutral connection on your old programmer*



- *Re-fit you existing thermostat in its new position. Using the supplied 2-core cable connect to terminal 4 , 5 labelled "thermostat"*
- *Refit the existing thermostats front and plug-in the iPdomo Thermostat connector. Fit the 3 AA batteries noting polarity.*
- *If you are not retaining your existing thermostat, just connect a wire link between terminals 4 and 5*
- ***Before fitting the thermostat cover to the mounting plate, make a note of the thermostat serial number - you will need this during the WiFi setup process**.*

***Note** 0 are zeros, not the letter O*

- *Clip the iPdomo Thermostat on the wall plate*
- *Switch Power to your boiler back on. Installation is complete*

4 Wifi Setup

We now need to configure the iPdomo Thermostat with your Wifi Network Details.

You will need;

- *The name of the Wi-Fi network (SSID) you want to connect to*
- *Your Wi-Fi network security settings - (WEP, WPA, ...)*
- *Your Wi-Fi network password*
- *A computer with an Internet connection and a USB port*
- *The Supplied USB Flash Drive*

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4.1** Start the **Web Setup Wizard**:* ***http://cloud.ipdomo.com/start

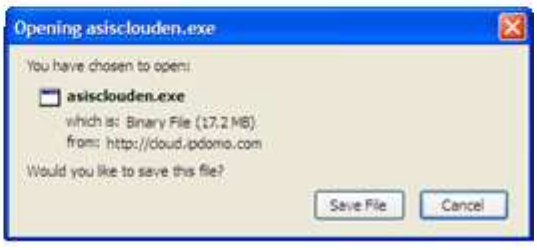
(Tip - If the page appears in Spanish, click on EN to display in English)

iPdomo
EN - ES
Congratulations on purchasing a new device from iPdomo
We have detected Windows.
We recommend you download and run the native wizard because it simplifies the installation process.
Click here to download the wizard for your platform >
Or click here to continue using the web assistant instead. >

Download and run the Windows program, if you are using Windows. Alternatively, you can use the Web Assistant.

Either way, both the Wizard Program and the Web Assistant analyse your network, ask for your WiFi details and generate a configuration file which is written to the USB Flash Drive.

If you select the Wizard download, the following screen is displayed;



Save the file and run the Wizard

The following procedure is the same whether you choose the Wizard program or the Web Assistant

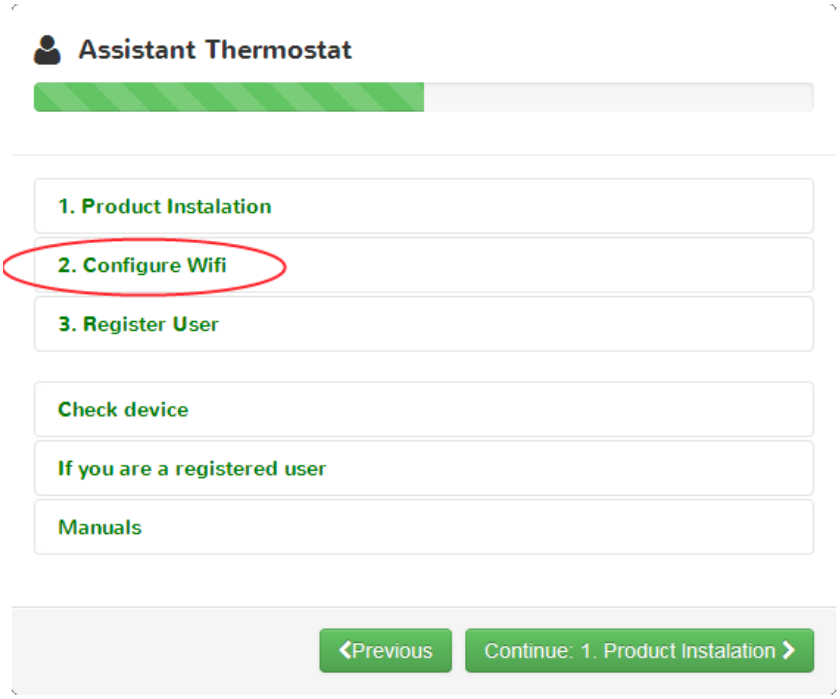
***4.2** Enter your iPdomo T**hermostat Serial Number** you noted during the installation*

iPdomo
EN - ES
Congratulations on purchasing a new device from iPdomo.
Welcome to the setup wizard.
You will be guided through a series of steps to complete the installation process.
Enter device Serial Number S/N
SN

(Tip - Don't enter the S/N at the start and 0 is the number zero and not the letter O)

*When you enter the Serial Number correctly, a **Continue** button will appear*

***4.3** Now click **2. Configure WiFi** (Selecting 1. Product Installation will just display a wiring diagram)*



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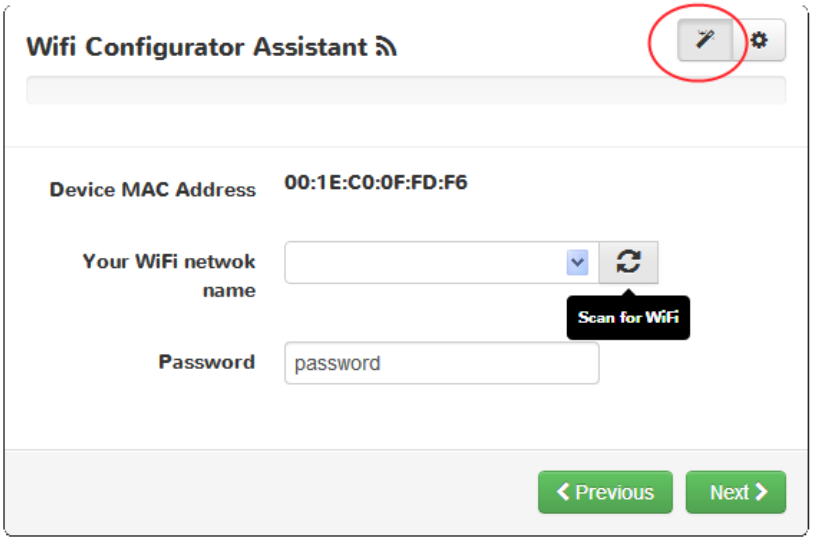
Wording appears - "The wizard guides you through configuring the device to the wireless network in your home or office". - Click ***Continue From Here***

The Wizard will automatically analyse your WiFi Network and should display your WiFi Network, security settings and password. If it does not, click on the *symbol top right and click the* ***Scan for WiFi*** *button. Your settings should appear.*

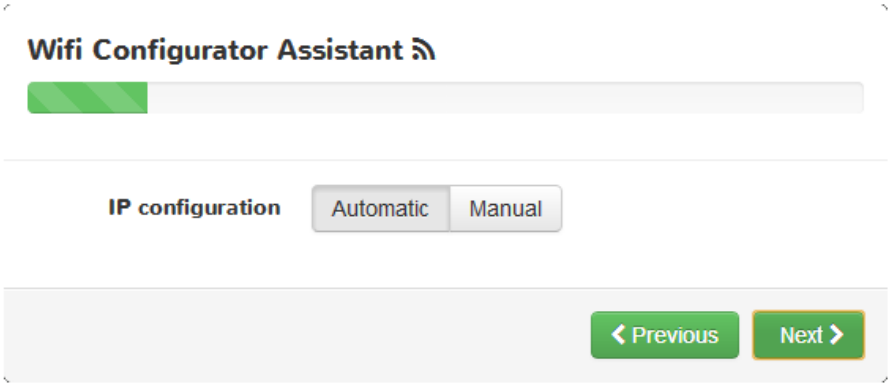


If the Wizard cannot find the correct details, you can manually enter your WiFi details by clicking the *button.*

Note - the Web Assistant cannot analyse your WiFi network automatically and you will have to enter your details manually.

Enter the name of your WiFi Network, the security settings and your Password. Click Next

4.4 IP Address - *For most users, just leave at automatic and select Next (Advanced users who wish to assign their own IP address to the iPdomo thermostat may select Manual)*



4.5 Copy WiFi details to the USB Flash Drive

Insert the supplied USB Flash Drive into a USB socket on your computer. Select the Drive from the drop down list - use the Refresh drives button to display available drives.

Wifi Configurator Assistant
Insert the USB flash drive into your computer to save the file CONFIG.INI
Select the USB Disk drive...
Refresh drives
Previous
Next

*Click **Next** - the Config.ini file containing your WiFi setup information will now be written to the USB Flash Drive when you click **Save***

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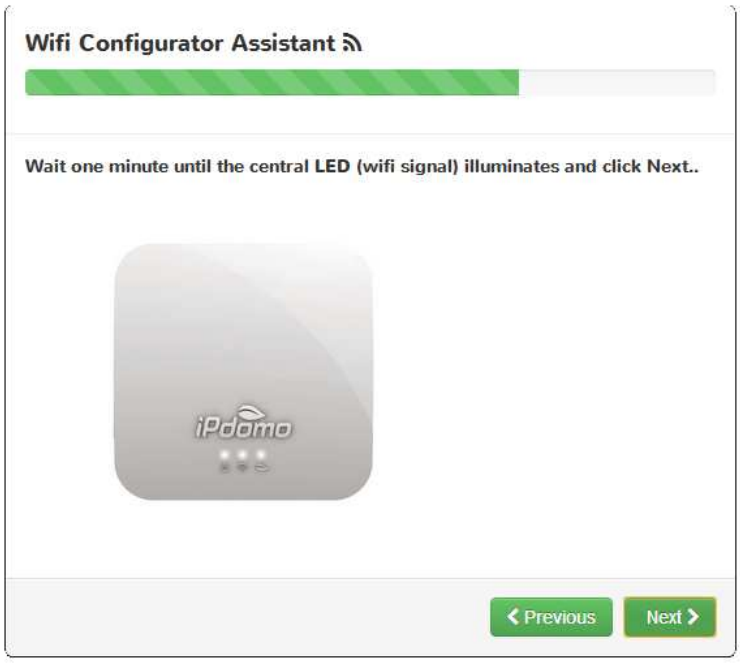
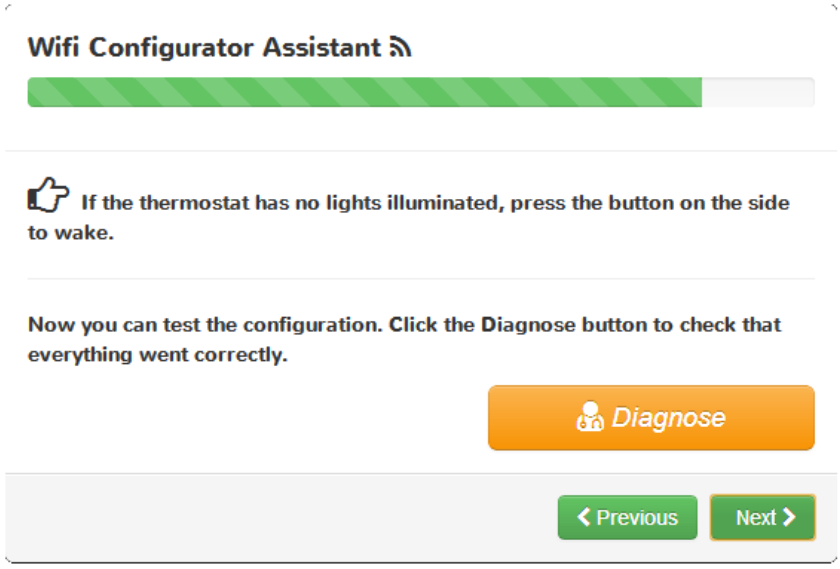
*4.**6 Transfer your WiFi details to the iPdomo Thermostat**. Now, remove the USB Flash drive from your computer and insert in the USB socket at the side of the iPdomo Thermostat. The 3 yellow LEDs will illuminate to signify that the file has been written successfully.*

Wifi Configurator Assistant
When you insert the USB flash drive into the device, the 3 front LEDS will illuminate to indicate that the new configuration has loaded sucessfully..
iPdomo
You can now save the file to the USB flash drive.
Previous
Next

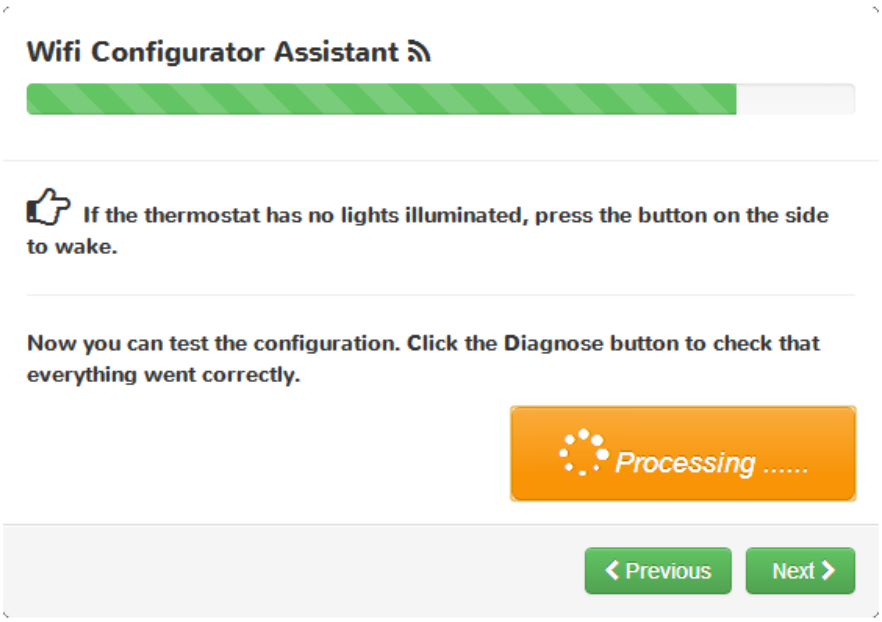
*Click **Next***



*After 1 minute, click **Next**. If the LED's have not illuminated, you may need to "wake" the iPdomo thermostat by pressing the button on the side. Now you can remove the USB Flash drive and test the configuration using the **Diagnose** Button*


Wifi Configurator Assistant
If the thermostat has no lights illuminated, press the button on the side to wake.
Now you can test the configuration. Click the Diagnose button to check that everything went correctly.
Diagnose
Previous
Next

It can take several minutes to test your WiFi connection.


Wifi Configurator Assistant
If the thermostat has no lights illuminated, press the button on the side to wake.
Now you can test the configuration. Click the Diagnose button to check that everything went correctly.
Processing .....
Previous
Next

*If there is a problem, re-try the **Diagnose** button. If after several attempts you still have not made a successful connection, click the Previous buttons to re-check your settings.*

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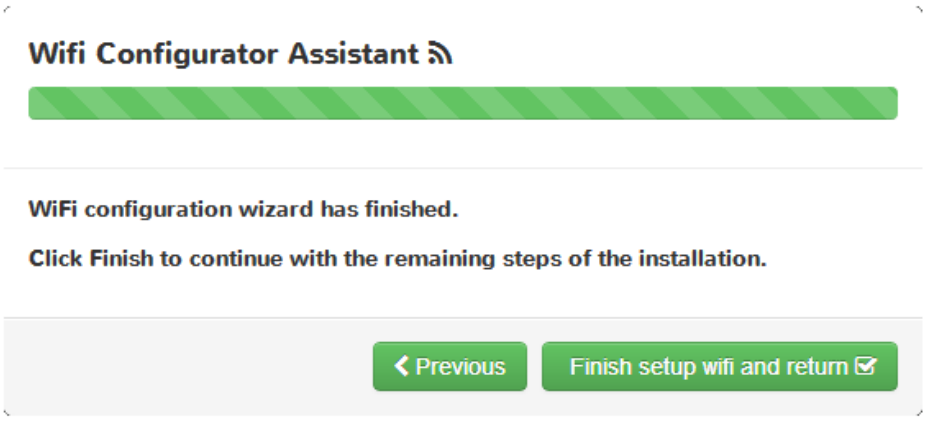
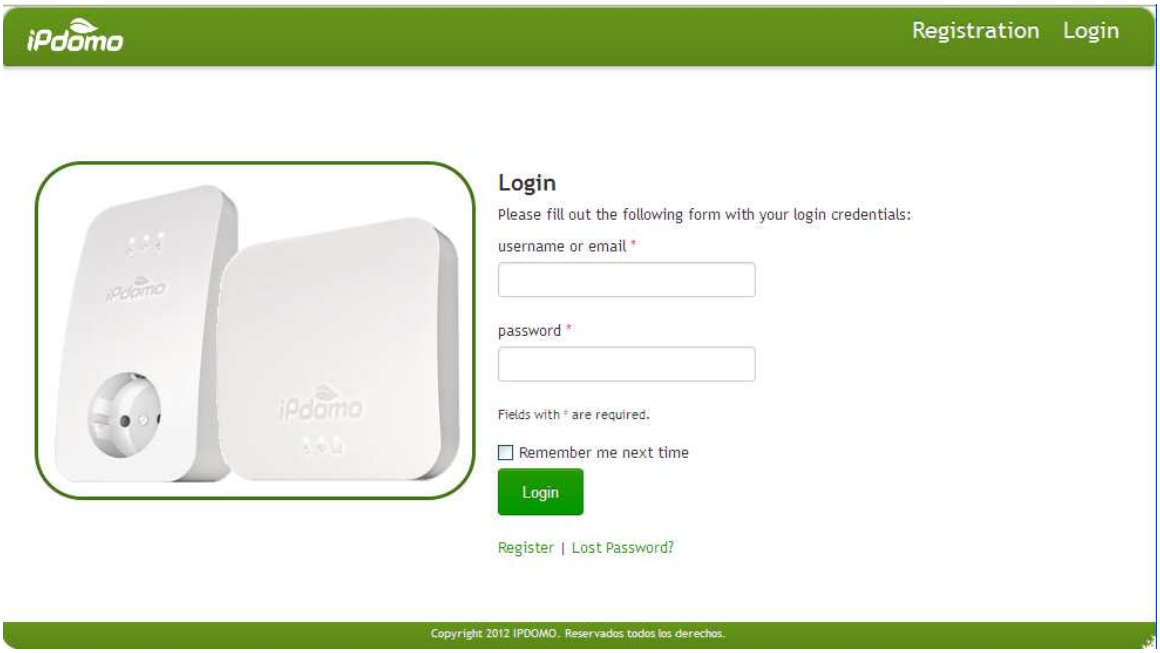
If successful you will see the following


Wifi Configurator Assistant
WiFi configuration wizard has finished.
Click Finish to continue with the remaining steps of the installation.
Previous
Finish setup wifi and return

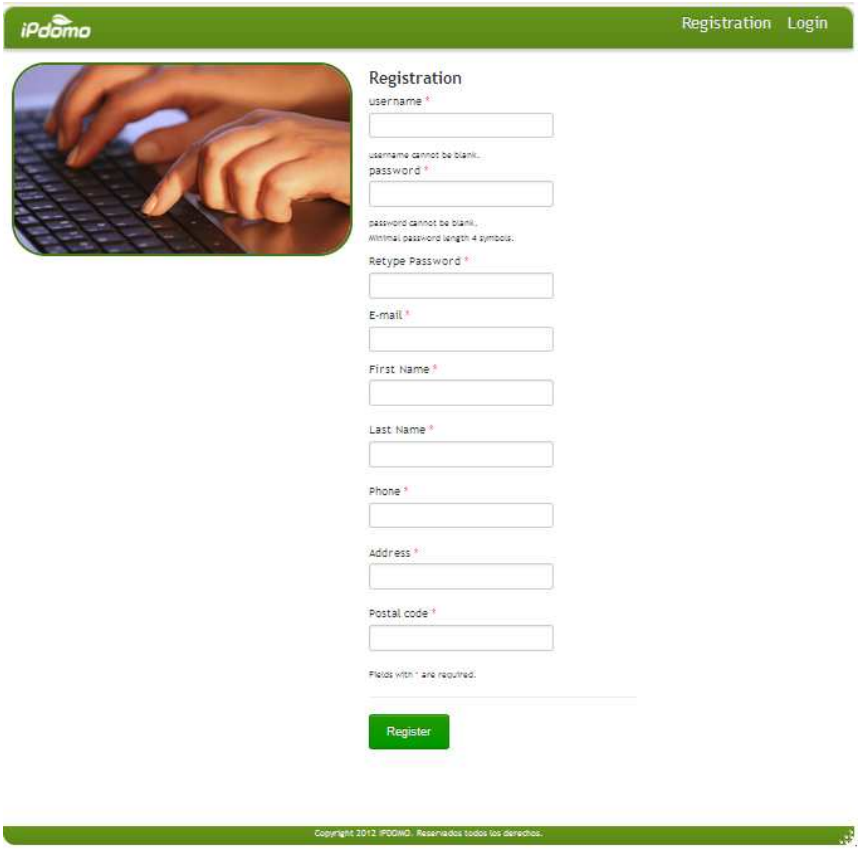
Click Finish to complete the setup procedure. You can now move on to the Internet Interface

5 Create Internet Cloud Account

Using your web browser , visit ***http://cloud.ipdomo.com/index.php?lang=EN***



and click on ***Registration*** *to create your iPdomo cloud account.*

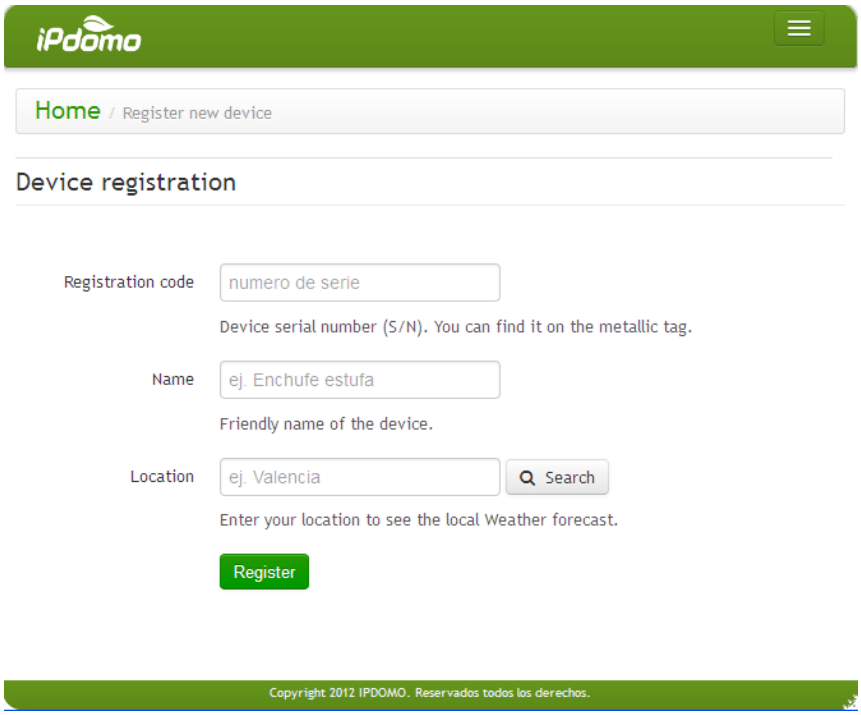


- *Enter a User Name*
- *Enter a Password*
- *Enter your address and phone number*

*click **Register**.*

Next, you give details of your iPdomo thermostat.

- *Enter the Serial Number of the Thermostat (as recorded earlier)*
- *Enter a descriptive name of the Thermostat - such as "Heating" or "Living Room"*
- *Enter a geographic location - your home town (Tip - click the Search button to see if we can find your location - you will see a tick if OK)*



If all is well, your iPdomo thermostat will have been added successfully, and you will be presented with the main thermostat page (see 6.2).

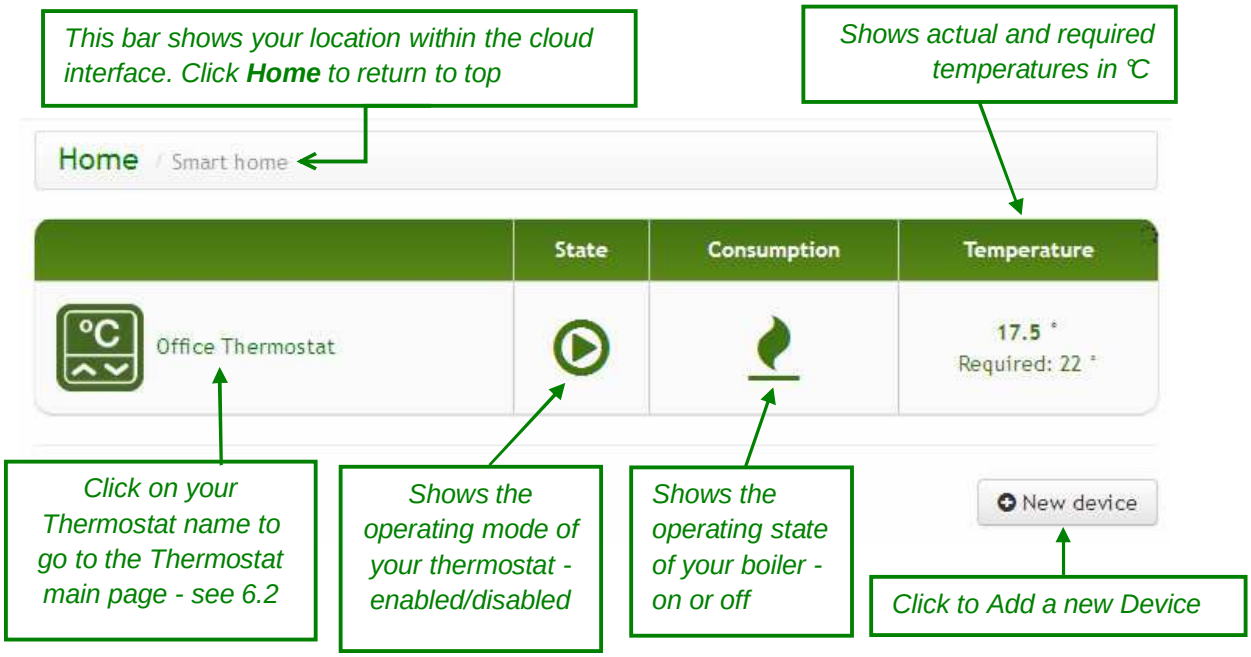
Important** - Please click on the Settings Button - see **6.2.4 Settings

In particular** - you must choose the **Winter Months** in order for the Thermostat to communicate with the cloud servers properly - see **6.2.4.3 Winter Months

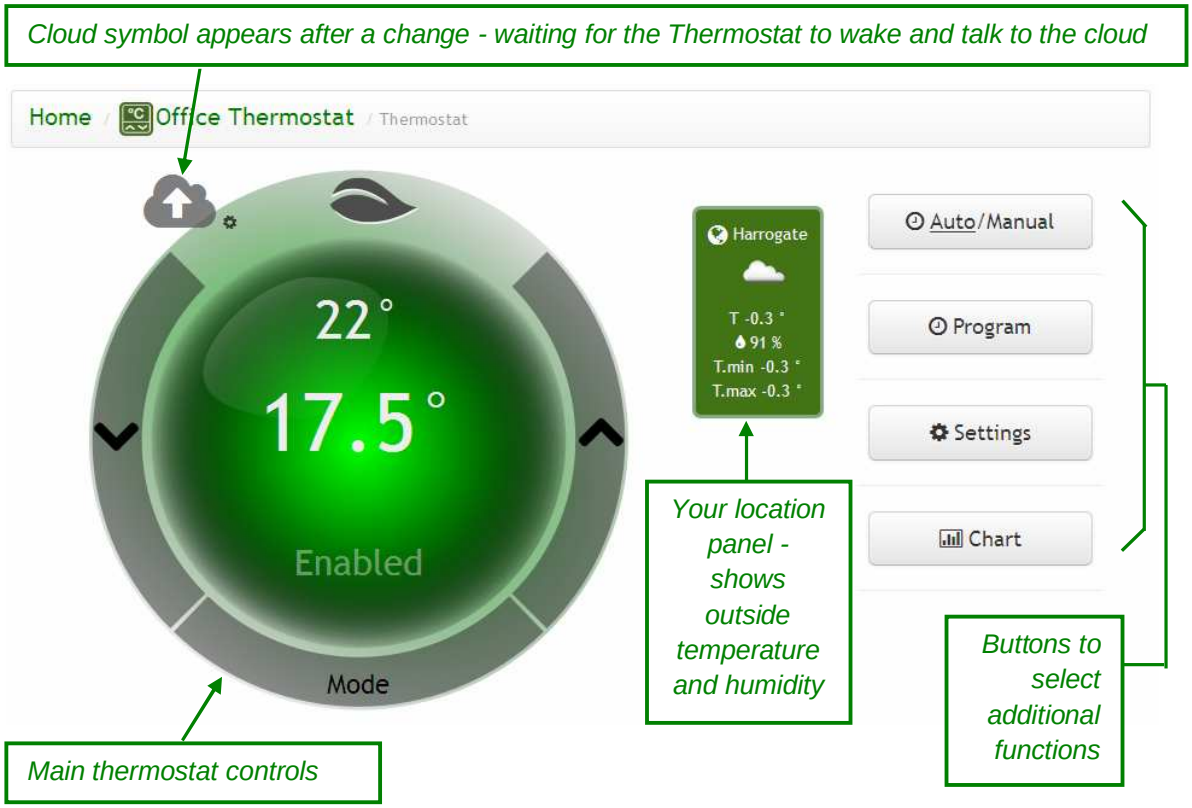
.

6 Cloud Interface

6.1 Home Screen


This bar shows your location within the cloud interface. Click **Home** to return to top
Shows actual and required temperatures in ℃
Home / Smart home
State
Consumption
Temperature
Office Thermostat
17.5 °
Required: 22 °
New device
Click on your Thermostat name to go to the Thermostat main page - see 6.2
Shows the operating mode of your thermostat - enabled/disabled
Shows the operating state of your boiler - on or off
Click to Add a new Device

6.2 Thermostat Screen



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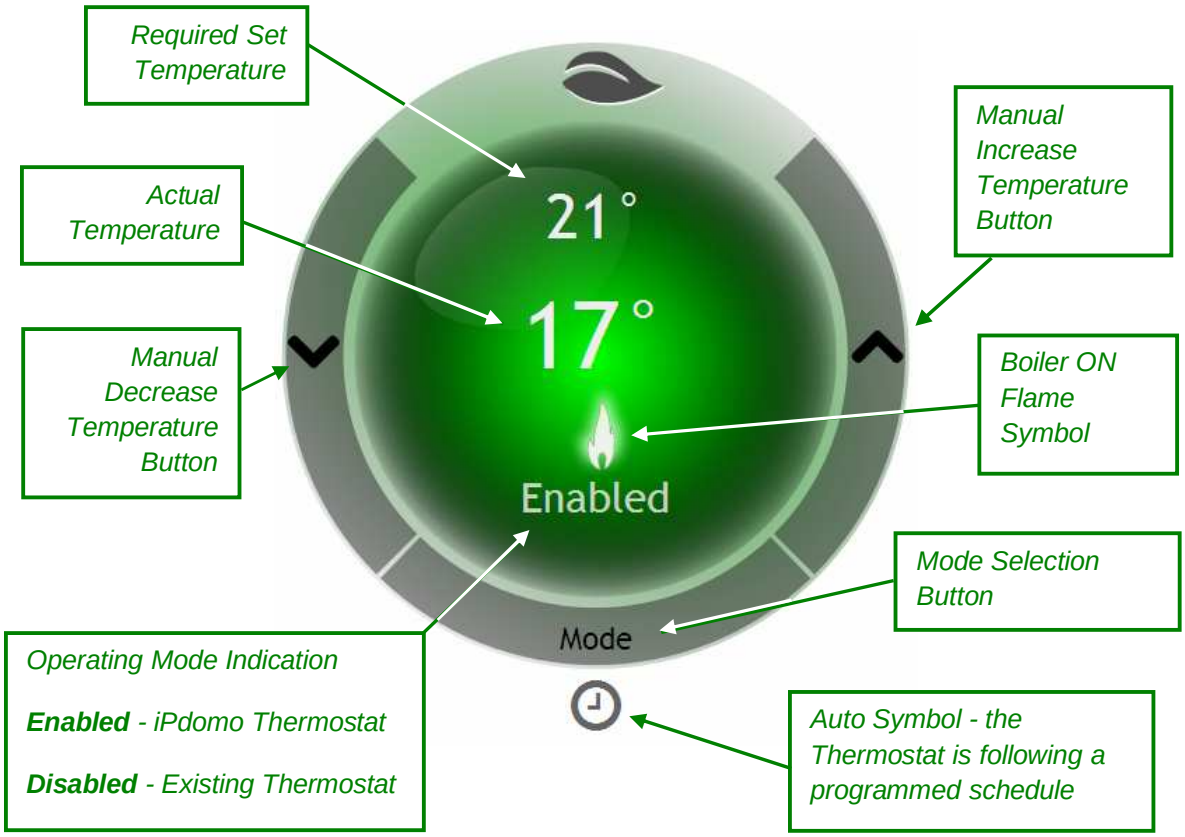
6.2.1 Main Thermostat Control



Display goes Blue when set temperature is less than 19℃

Display goes Red when set temperature is more than 23℃

6.2.2 Auto/Manual Selection

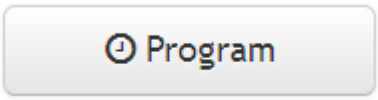
Toggles Between;

***Auto** - Programmed Time/Temperature schedule*
***Manual** - Thermostat controls to the temperature as set by the Up/down Buttons.*

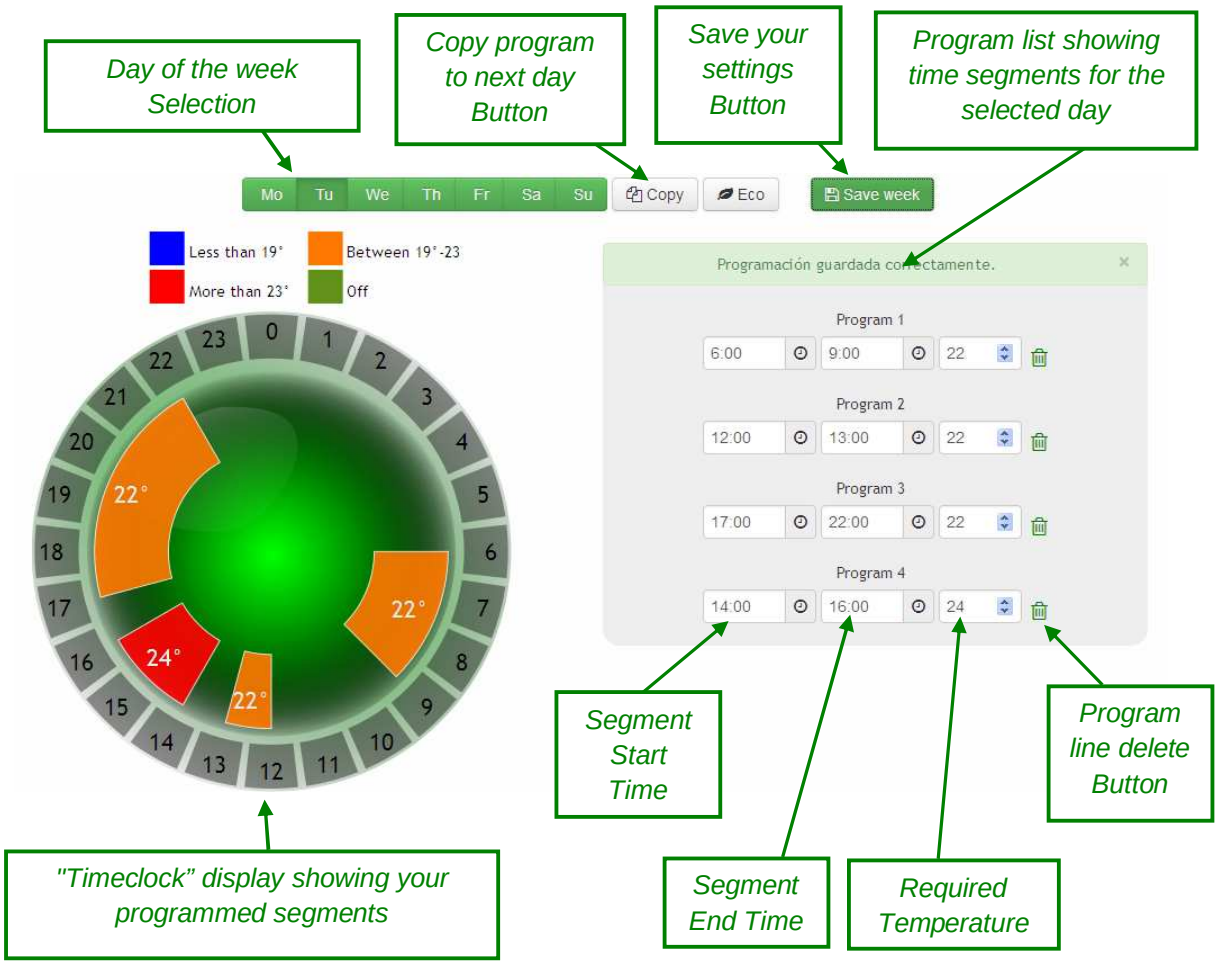
The underscore shows the mode that can be selected- here the Thermostat is in Manual.

*When in Auto the **Program** Button becomes greyed and the* *symbol appears*

6.2.3 Programme



This button brings up another Window where you can set your time against temperature programmes.



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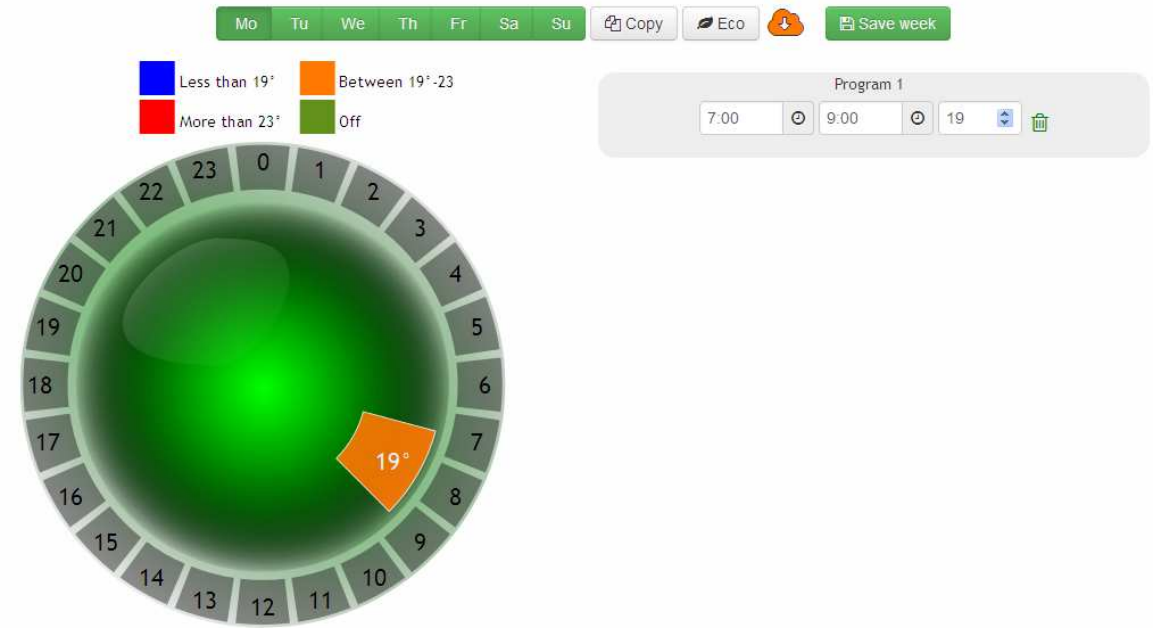
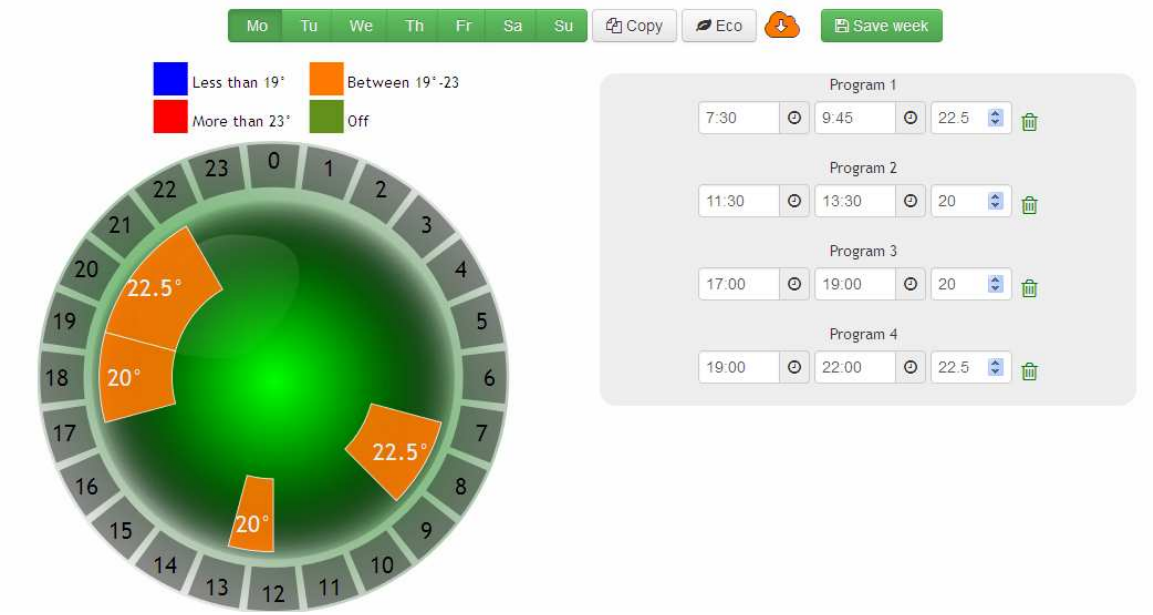
To set a programme;

- *Select the first Day*
- *Using the "Timeclock" Display, click on the first hour that you want your heating to come on. For example, if you want your heating to come on at 7:30, click on the 7 segment*
- *Now click on the time segment you want the heating to go off. For example you want the heating to go off at 9:45, click on 9*
- *The segment will now be shown in Orange on the Timeclock, and a new program, Program 1 will be created. The temperature in this program will be automatically set to 19℃*



- *You can edit Program 1 to suit. Click on the first time box in the Program list and change to the time your require. So using the previous example you would change the 7:00 to 7:30. Likewise for the second time, 9:00 to 9:45. Finally, click on the temperature box and either use the up/down buttons or enter your desired temperature if 19℃ is not required. Decimal points are acce pted.*
- *Add any other Programs for that day in the same manner. There is no limit to the number of Programs you can have per day.*
- *If you wish to delete a Program, just click the Bin symbol*
- *To copy the Programs to the next day, click the **Copy** button*
- *When you have finished, click on the **Save Week** button*

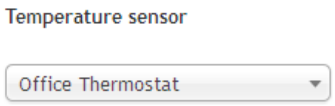


Here we can see we have adjusted Program 1 and added another 3 Programs

6.2.4 Settings

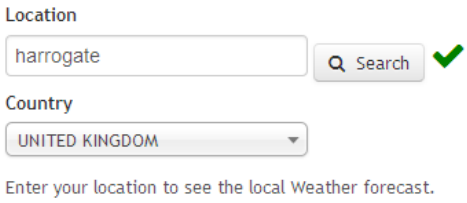
Clicking this button brings up another Window where you can select various options and settings

6.2.4.1 Temperature Sensor



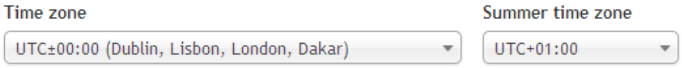
If you have a iPdomo remote controlled socket, you can select this as the temperate sensor source from the drop-down list.

6.2.4.2 Location



Enter your nearest town and click the search box. If the database finds your town, it will display a tick. If not you will need to broaden your search. You will now be given a local weather forecast.

6.2.4.3 Time Zone



Enter your Time zone - the iPdomo Thermostat can be used worldwide

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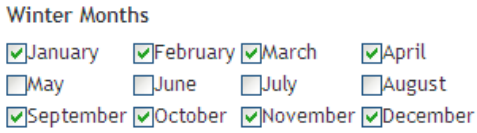
6.2.4.4 Winter Months



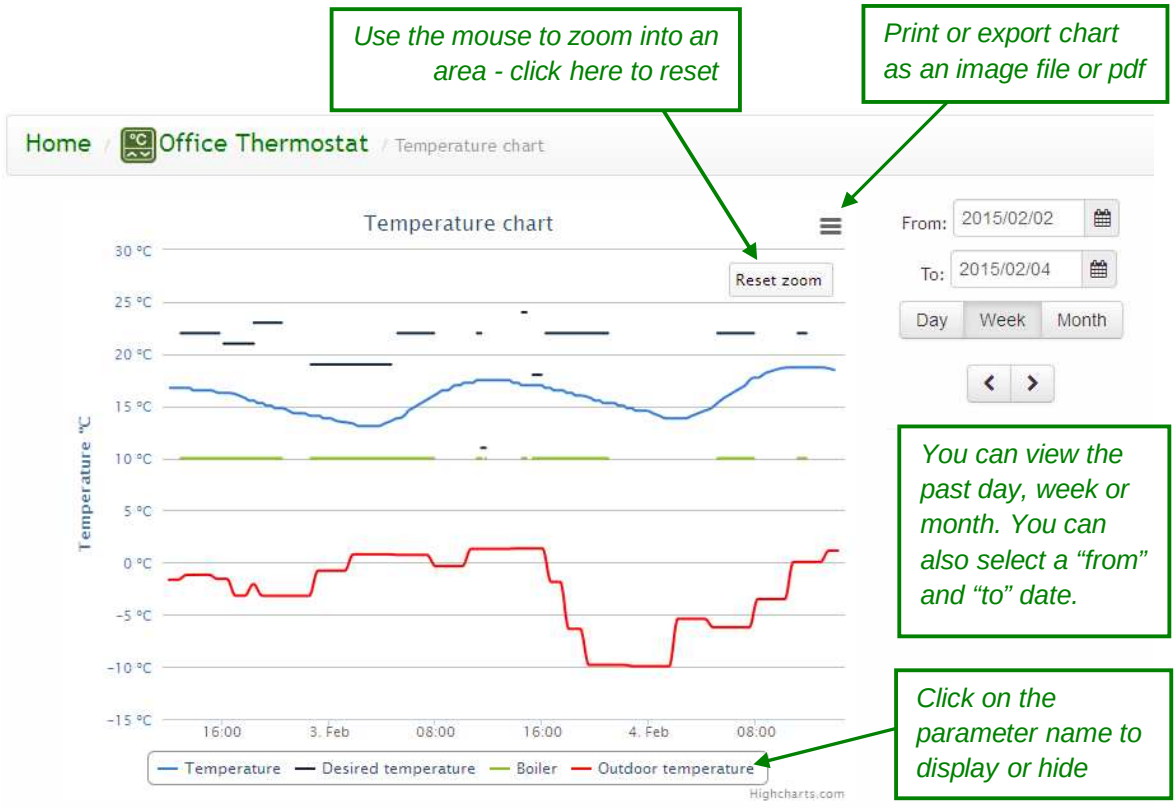
You must tell the iPdomo Thermostat when it should be active and when it is not generally required to control your heating. The iPdomo thermostat is battery powered it "sleeps" during the summer months to conserve battery power. During the summer months, it only "wakes" once per day to contact the cloud server. During the Winter months, it "wakes" every 19 minutes to contact the cloud server to update the temperate reading and to see if there are any new commands it needs to act upon.

So, you must tick the Months you want the Thermostat to be active.

*Remember to click the **Save** Button when you are finished entering your settings.*

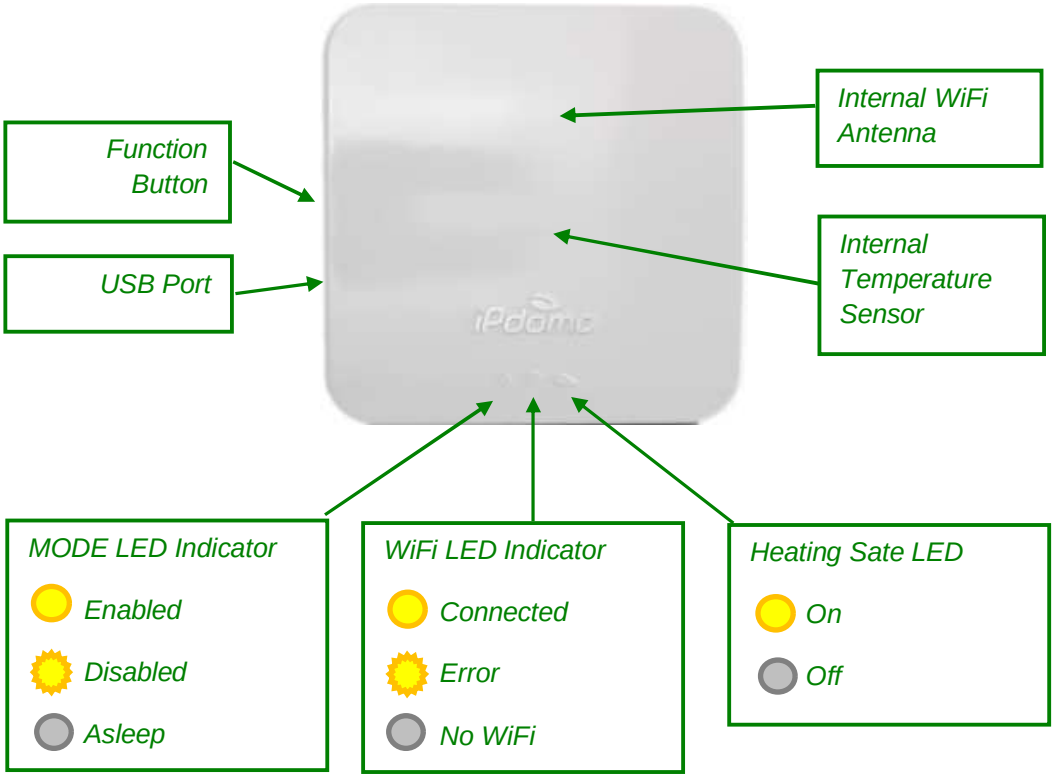
6.2.3 Charts

Clicking this button brings up the chart window where you can view set temperature, actual temperature, boiler status and forecast outside temperature in a chart format.



7 Technical

7.1 Layout and LED Indication



Note *- LEDs are only active momentarily when the unit "wakes".* *Denotes Flashing*

7.2 Function Button

7.2.1 Reset

Press and hold the Function button for more than 5 seconds to Reset the thermostat - all settings will be lost and the Thermostat will return to factory defaults.

7.2.2 Wake and Sleep

If the Thermostat is "sleeping" (in between "waking" to communicate with the cloud servers) a short press of the Function button will "wake" the Thermostat. The "Thermostat Mode LED" lights or flashes (depending on the selected mode). It synchronizes with the cloud server to send data and receive commands. The Thermostat will go back to "sleep" after 1 minute. You can use this to action changes immediately rather than waiting for the scheduled "wake".

If the thermostat is awake , a short press of the Function Button will put the thermostat to "sleep" to save battery life.

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7.3 Operating Modes

Enabled - The iPdomo Thermostat controls your heating

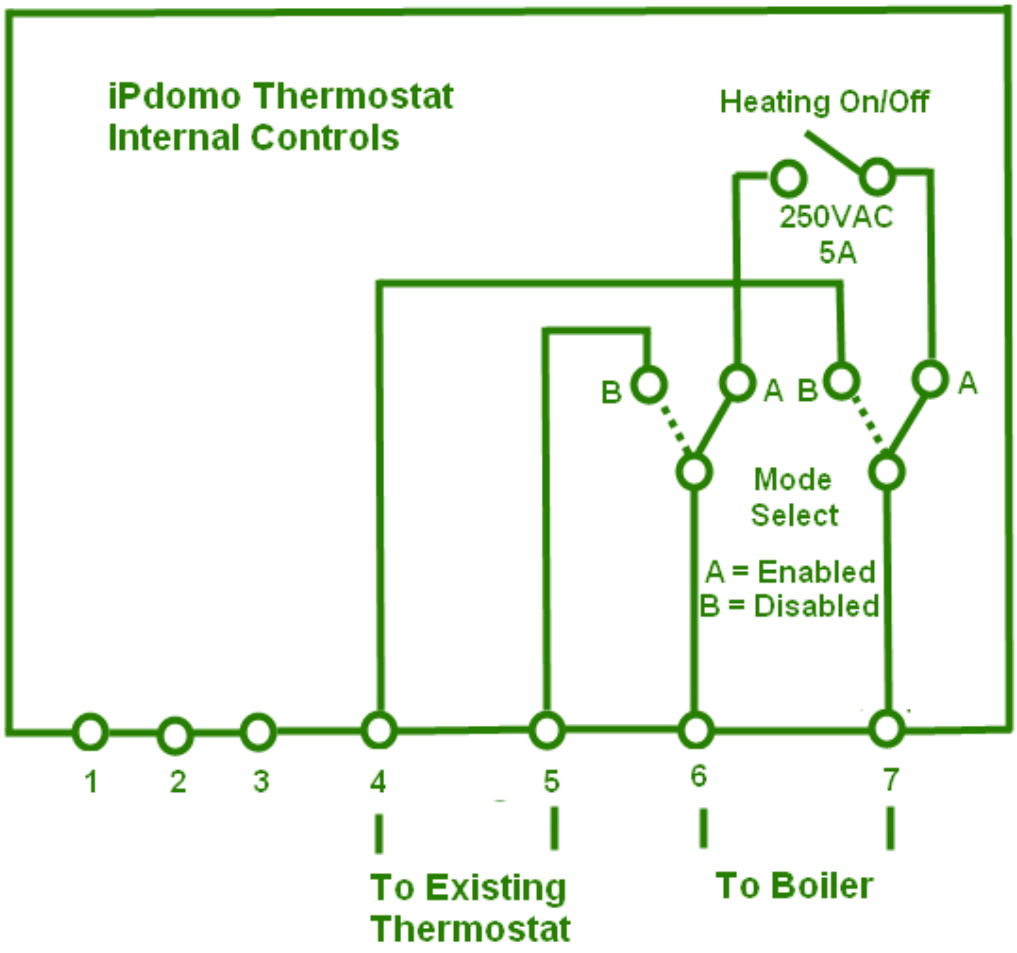
Disabled - Your old Thermostat controls your heating

NOTE: If the batteries run out, the thermostat automatically switches to Disabled Mode.

Awake - the "Thermostat Mode LED" lights or flashes (depending on the selected mode). It synchronizes with the cloud server to send data and receive commands. The Thermostat will sleep after 1 minute. Wakes every 19 minutes in Winter and every 24 hours in Summer.

Asleep - In this state the WiFi is switched off and the LED indicators are unlit but the Thermostat is still active. The Thermostat will continue to control your heating in accordance with the required temperature demand and any programs will continue to run.

7.4 Internal Layout



7.5 Specifications

Electrical Characteristics	Power Supply	4.5V DC via 3 x AA Batteries
	Consumption (sleep)	300uW (approx)
	Consumption (active)	560mW (approx)
Dimensions	108mm x 108mm x 33mm	
Connectivity	Full Speed USB Host Port: Supports removable storage devices with FAT16, FAT32 format.	
	WiFi Certified (WFA ID: WFA7150)	
	Standard IEEE802.11B (compatible with modes G and N)	
	Data Transmission Rate	1 and 2 Mbps
	Supported Channels	[1-13]
	Security Modes	Open, WEP, WPA-PSK, WPA2-PSK
	Range	Up to 18m internal, 100m External
Temperature Sensor	Range	-20℃ to +50℃
	Accuracy	±1℃
Control Relay Contact	24VDC, 250VAC at 5A Resistive	
Compliance	CE, IP33, ROHS	

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